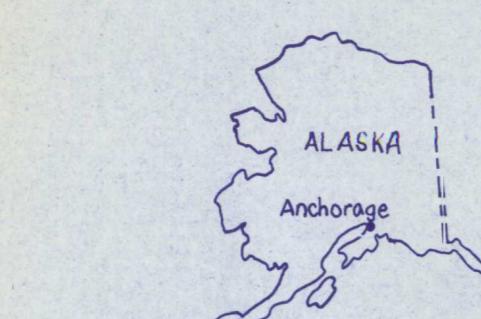
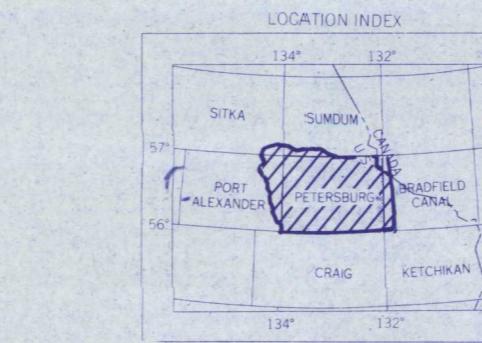


Base from U.S. Geological Survey Petersburg, 1960;  
Bradfield Canal, 1955; Sundum, 1961, 1971; Port  
Alexander, 1951, 1977; Sitka, 1951, 1970



PETERSBURG  
AREA

SCALE 1:250,000  
CONTOUR INTERVAL 200 FEET IN THE UNITED STATES AND 250 FEET IN CANADA  
DATE 1983



This report is preliminary and has not been  
reviewed for conformity with U.S. Geological  
Survey editorial standards.

**EXPLANATION**  
SAMPLE SITES--Letters are explained on table 1.

Anomalous site--sample locality at which the concentration is considered to deviate from the upper limit of normal background values, as determined by inspection of histograms, percentiles, and enrichment relative to crustal abundance.

**A Concentration**

**NOTE**

This map is one of a series of geochemical maps concerning the Petersburg area, southeast Alaska. For discussion of sample description, collection methods, media selection, sample preparation, statistical data, and analytical techniques, see Cathrall and others (1983).

**REFERENCE**

Cathrall, J. B., Day, G. W., Hoffman, J. D., and McDanal, S. K., 1983, A listing and statistical summary of analytical results for pebbles, stream sediments, and heavy-mineral concentrates from stream sediment, Petersburg area, southeast Alaska: U.S. Geological Survey Open-File Report 83-420-A.

Table 1.--Chromium in 1449 minus-80-mesh stream sediment samples, Petersburg area, southeast Alaska.

[Concentrations in parts per million; >, greater than value shown; N, not detected at limit of detection or at value shown. Arithmetic mean, 128; standard deviation, 144; geometric mean, 9.5; and geometric deviation, 2.1, based on unqualified values within the sample population.]

Concentration	Map Symbol	Frequency	Percentile
>3,000	A	1	100
3,000	B	1	99.93
2,000	C	0	99.86
1,500	D	0	99.86
1,000	F	6	99.45
700	H	20	98.07
500	J	30	96.00
300	K	72	91.03
200	L	134	81.78
150	M	202	67.84
100	N	315	46.10
70	O	329	23.40
50	P	218	8.35
30	R	83	2.62
20	S	23	1.04
15	T	6	0.62
10	U	6	.21
N10	X	3	.00

DISTRIBUTION AND ABUNDANCE OF CHROMIUM, AS DETERMINED BY SPECTROGRAPHIC ANALYSIS, IN THE MINUS-80-MESH FRACTION OF STREAM SEDIMENTS, PETERSBURG AREA, SOUTHEAST ALASKA

By

John B. Cathrall, Gordon W. Day, James D. Hoffman,  
and Steven K. McDanal

1983